

**In the Claims:**

1. (Currently Amended) A pulse jet printhead assembly comprising:
  - (a) a multiple die printhead comprising:
    - (i) an orifice plate comprising a plurality of orifices; and
    - (ii) a plurality of printhead dies present on a surface of said orifice plate in operational alignment with said orifices to produce a least one firing chamber; and
  - (b) a multiple reservoir housing affixed to said multiple die printhead;  
wherein the ratio of reservoirs to dies in said assembly is at least 2.
2. (Original) The pulse jet printhead assembly according to Claim 1, wherein said assembly comprises from about 2 to about 100 distinct reservoirs.
3. (Original) The pulse jet printhead assembly according to Claim 1, wherein the ratio of reservoirs to dies in said assembly ranges from about 2 to about 20.
4. (Original) The pulse jet printhead assembly according to Claim 1, wherein said printhead comprises from 2 to about 10 printhead dies.
5. (Original) The pulse jet printhead assembly according to Claim 4, wherein said printhead comprises from 2 to 5 printhead dies.
6. (Original) The pulse jet printhead assembly according to Claim 5, wherein said printhead assembly is a thermal pulse jet printhead assembly.
7. (Original) The pulse jet printhead assembly according to Claim 1, wherein each reservoir has walls that are sufficiently high to prevent cross-contamination of samples among reservoirs of said housing.
8. (Original) The pulse jet printhead assembly according to Claim 1, wherein said housing comprises at least one excess adhesive flow path.

9. (Original) The pulse jet printhead assembly according to Claim 1, wherein said housing comprises at least one discontinuity at a reservoir housing printhead mating surface that prevents gap formation at the housing printhead interface following adhesive curing.

10. (Original) The pulse jet printhead assembly according to Claim 1, wherein at least one of said reservoirs comprises a fluid that includes a biopolymer or precursor thereof.

11. (Original) The pulse jet printhead assembly according to Claim 1, wherein:  
(i) each reservoir of said multiple reservoir housing has walls that are sufficiently high to prevent cross-contamination of samples among reservoirs; (ii) said housing comprises at least one excess adhesive flow path; (iii) said housing comprises at least one discontinuity at a reservoir housing printhead mating surface that prevents gap formation at the housing printhead interface following adhesive curing; and said pulse jet printhead assembly is a thermal pulse jet printhead assembly.

12. (Original) The thermal pulse jet printhead assembly according to Claim 11, wherein said multiple reservoir housing comprises from about 2 to about 100 distinct reservoirs.

13. (Original) The thermal pulse jet printhead assembly according to Claim 11, wherein the ratio of reservoirs in said housing to dies on said printhead ranges from about 2 to about 20.

14. (Original) The thermal pulse jet printhead assembly according to Claim 11, wherein said printhead comprises from 2 to about 10 printhead dies.

15. (Original) The thermal pulse jet printhead assembly according to Claim 14, wherein said printhead comprises from 2 to 5 printhead dies.

16. (Original) The thermal pulse jet printhead assembly according to Claim 15, wherein said printhead comprises 3 printhead dies.

17. (Original) The thermal pulse jet printhead assembly according to Claim 11, wherein at least one of said reservoirs comprises a fluid that includes a biopolymer or precursor thereof.

18. (Original) The thermal pulse jet printhead assembly according to Claim 17, wherein said biopolymer is selected from the group consisting of polypeptides and nucleic acids.

19. (Original) The thermal pulse jet printhead assembly according to Claim 17, wherein said precursor thereof is selected from the group consisting of amino acids and nucleotides.

20 – 30. (Cancelled)

31. (Original) An automated pulse jet printing system, said system comprising a pulse jet printhead assembly according to Claim 1.

32. (Original) A multiple reservoir printhead housing for use in a pulse jet printhead assembly according to Claim 1, wherein said multiple reservoir housing is configured to be mounted on a multiple printhead die printhead in a manner that maintains orifice to orifice spacing of an orifice plate component of said printhead.

33. (Original) The multiple reservoir printhead housing according to Claim 32, wherein each reservoir element of said multiple reservoir housing has walls that are sufficiently high to prevent cross-contamination of samples among reservoirs of a printhead assembly that includes said housing.

34. (Original) The multiple reservoir printhead housing according to Claim 32, wherein said housing comprises at least one excess adhesive flow path.

35. (Original) The multiple reservoir printhead housing according to Claim 32, wherein said housing comprises at least one discontinuity at a reservoir housing printhead mating surface that prevents gap formation following adhesive curing at the housing printhead interface in a printhead assembly according to Claim 1.

36. (Original) The multiple reservoir printhead housing according to Claim 32, wherein said multiple reservoir housing comprises from about 1 to about 100 distinct reservoirs.

37. (Withdrawn) A method of fabricating a pulse jet printhead assembly according to Claim 1, said method comprising:

- (a) providing a multiple reservoir housing according to claim 30;
- (b) providing a multiple printhead die printhead; and
- (c) stably affixing said multiple reservoir housing to said multiple die printhead to fabricate said pulse jet printhead assembly.

38. (New) A pulse jet printhead assembly comprising:

- (a) a multiple die printhead comprising:
  - (i) an orifice plate comprising a plurality of orifices; and
  - (ii) a plurality of printhead dies present on a surface of said orifice plate in operational alignment with said orifices to produce at least one firing chamber; and
- (b) a multiple reservoir housing affixed to said multiple die printhead; wherein each reservoir has walls that are sufficiently high to prevent cross-contamination of samples among reservoirs of said housing.

39. (New) The pulse jet printhead assembly according to Claim 38, wherein said assembly comprises from about 2 to about 100 distinct reservoirs.

40. (New) The pulse jet printhead assembly according to Claim 38, wherein the ratio of reservoirs to dies in said assembly ranges from about 2 to about 20.

41. (New) The pulse jet printhead assembly according to Claim 38, wherein said printhead comprises from 2 to about 10 printhead dies.
42. (New) The pulse jet printhead assembly according to Claim 41, wherein said printhead comprises from 2 to 5 printhead dies.
43. (New) The pulse jet printhead assembly according to Claim 42, wherein said printhead assembly is a thermal pulse jet printhead assembly.
44. (New) The pulse jet printhead assembly according to Claim 38, wherein said housing comprises at least one excess adhesive flow path.
45. (New) The pulse jet printhead assembly according to Claim 38, wherein said housing comprises at least one discontinuity at a reservoir housing printhead mating surface that prevents gap formation at the housing printhead interface following adhesive curing.
46. (New) The pulse jet printhead assembly according to Claim 38, wherein at least one of said reservoirs comprises a fluid that includes a biopolymer or precursor thereof.